

Agriculture and fisheries

Author: Carla MARTINS


 Statistics in focus
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Farm Structure Survey in Hungary - 2007

85 % of the utilised agriculture area is arable land

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This Statistics in Focus is part of a series of country-specific publications on the results of the Farm Structure Survey (FSS) 2007. It provides a brief but nevertheless comprehensive insight into the farm structure in Hungary.

626 300 agricultural holdings were recorded in Hungary in the 2007 Farm Structure Survey (12% less than in 2005). The average area has increased by 12 % reaching 29 ha per holding.

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Due to the different coverage of the FSS across Member States, the total number of farms is not comparable between countries. This is why the present analysis, including Tables 1-4 and the graphs focus on holdings of at least one European Size Unit (ESU). See the methodological notes for more information on the concept of ESU.

In 2007, about one fifth of the **agricultural holdings** (141 000) had an economic size of at least 1 ESU, compared with 157 000 in 2005 (a 10% reduction).

They used about **4.05 million ha of utilised agricultural area** (UAA), an increase of 0.2% compared with 2005. This area represents 95% of the UAA in Hungary and an average of 29 ha per holding (compared with 26 ha in 2005);

These holdings employed **209 000 AWUs** (annual work units), the equivalent of 209 000 people working full time (10% less than 2005). The average area per AWU was 19.4 ha (around 2 ha more than in 2005);

They had **2.1 million livestock units** (LSU) in 2007, slightly less (1%) than in 2005.

Amongst these **141 000** agricultural holdings:

58% made use of less than one AWU, while another 13% made use of 2 or more AWUs;

31% used less than 2 ha, while 9% used 50 ha or more;

55% produced mainly for own consumption and 35% produced mainly for direct sales;

55% of Hungarian farms specialised in crops, a 2%

increase compared with the 2005 value.

26% of the holdings specialised in cereals, oil seed and protein crops;

12% specialised in mixed cropping;

11% of the holdings were engaged in various crops and livestock combined.

The work of family labour force has decreased by 13% from 2005 to 2007 and it was 58% of the total farm labour force in Hungary (a 2% decrease from 2005).

Amongst the sole holders:

14% were women;

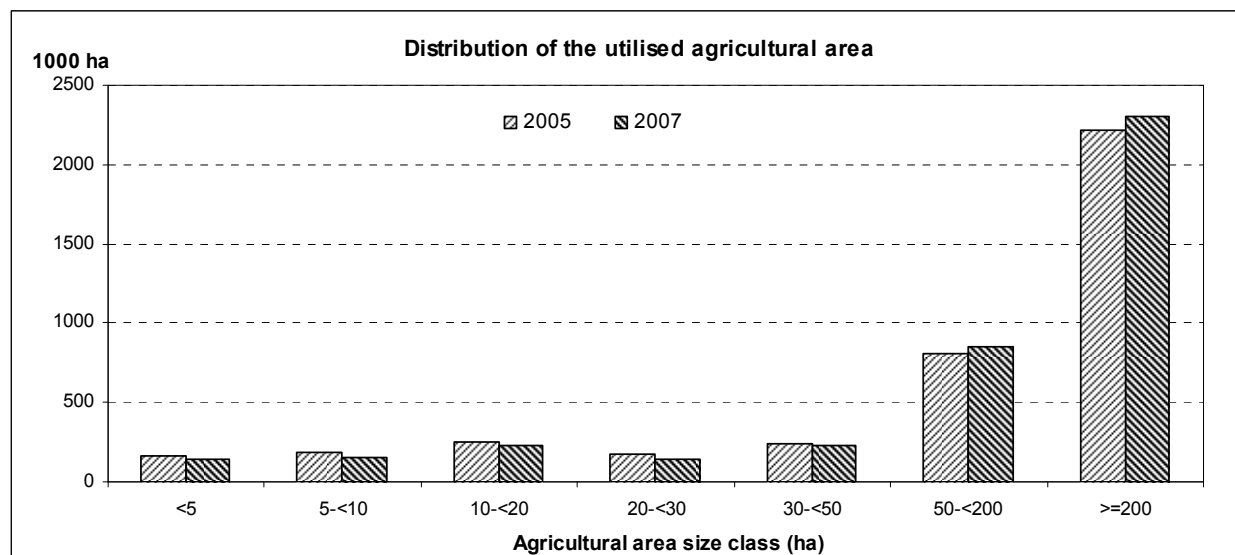
48% were aged 55 or more and 7% were younger than 35 years;

36% of the sole holders had another gainful activity in 2007.

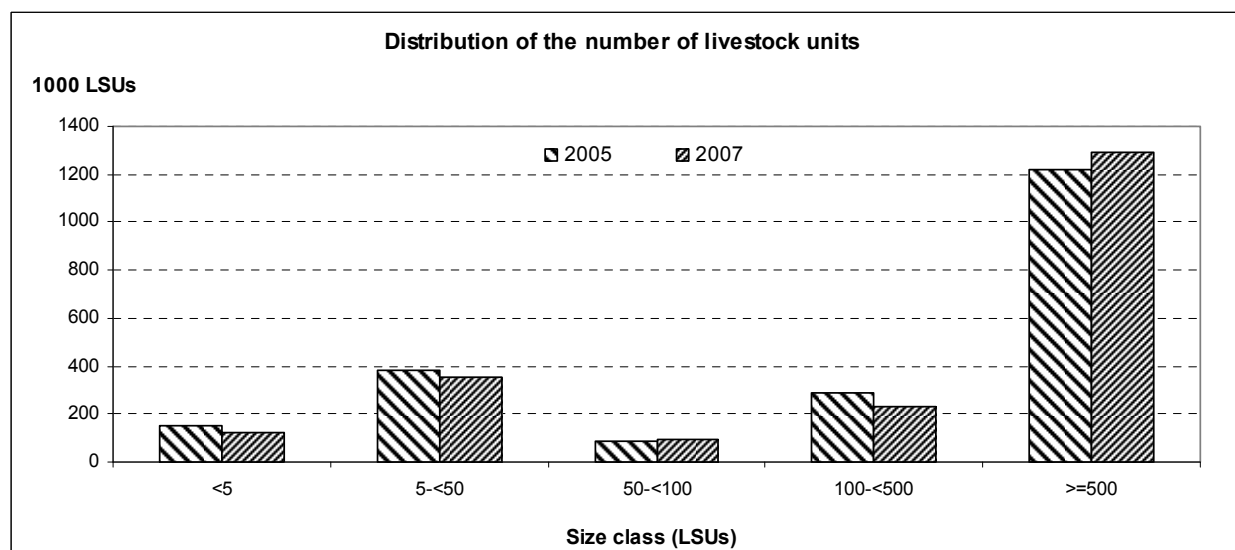
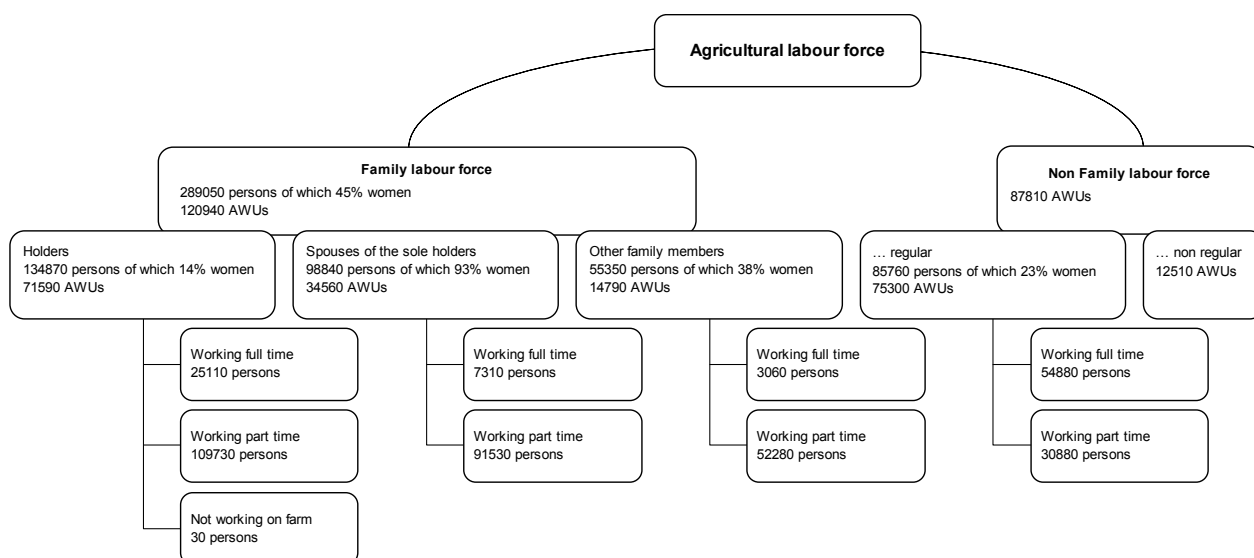
In Hungary in 2007, 37% of the agricultural area was farmed by its owners.

There was a noticeable increase in the rape and turnip area, more than doubling from 2005 to 2007, a 112% increase, going from 2.6% of the UAA in 2005 to 5.5% in 2007. On the other hand, the area sown with sunflower and soya was reduced by 17% and 21% respectively.

In spite of a 10% decrease in the number of holdings with organic farming, there was a 16% increase in the area under organic farming; in 2007 it counted for 1.8% of the UAA. The average area of these types of holdings was 155 ha.



Description of the labour force in Hungary



*LSUs = Livestock Unit

Table 1 – Labour force by size of the farms

Size of the farms		Agricultural area (ha)				All farms	Livestock (LSU*)			
		<20	20-<50	50-<100	>=100		0	>0-<50	50-<100	>=100
Total labour force										
	1000 annual work units	112.1	18.6	10.8	67.2	208.7	63.8	96.2	3.9	44.8
Family labour force										
	1000 persons	243.1	25.2	11.6	9.2	289.1	82.8	202.0	2.9	1.3
	1000 annual work units	95.3	13.2	6.6	5.8	120.9	29.7	88.3	2.0	0.9
Non-family labour regularly employed										
	1000 persons	12.8	4.5	3.9	64.6	85.8	30.6	4.5	2.0	48.6
	1000 annual work units	10.5	3.6	3.3	57.9	75.3	26.6	3.8	1.8	43.1
Non regular non family labour force										
	1000 annual work units	6.3	1.8	0.9	3.5	12.5	7.5	4.1	0.2	0.8
Holding managers	1000	116.4	12.3	5.7	6.5	140.8	43.5	94.1	1.4	1.8
- women	(%)	14.7	11.1	9.7	10.6	14.0	15.1	13.6	9.6	9.8
- part-time: - under 50 %	(%)	55.2	32.8	21.7	10.3	49.8	56.9	48.0	8.8	6.8
- 50 % and over	(%)	29.8	29.0	30.2	22.1	29.4	24.1	32.3	16.1	16.2
Sole/main holders	1000	114.5	11.6	5.1	3.8	134.9	39.5	93.6	1.2	0.5
- women	(%)	14.4	10.8	8.9	9.6	13.8	15.1	13.4	8.7	6.6
-distribution by age	(%)									
- under 35 years		6.9	8.5	9.6	10.2	7.2	10.1	5.9	11.5	8.2
- from 35 to 44 years		16.1	18.0	18.4	17.9	16.4	20.8	14.3	24.0	27.8
- from 45 to 54 years		27.3	31.4	34.5	35.3	28.1	31.4	26.7	33.5	21.2
- from 55 to 64 years		28.6	28.1	24.4	28.6	28.4	25.0	29.9	21.2	37.7
- 65 years and over		21.2	14.0	13.2	8.1	19.9	12.7	23.2	9.7	5.1
- part-time: - under 50 %	(%)	56.1	34.9	24.3	17.6	52.0	62.7	48.2	10.5	22.1
- 50 % and over	(%)	30.3	30.9	33.8	38.0	30.7	26.5	32.5	19.2	52.7
- with another gainful activity ¹	(%)	37.6	33.2	23.9	19.6	36.2	46.4	32.2	19.3	17.8
- as a main occupation		36.2	31.6	22.2	17.5	34.7	44.7	30.9	17.6	15.6
- as a subsidiary occupation		1.4	1.7	1.7	2.1	1.4	1.6	1.3	1.6	2.2
Spouse of sole holder	1000	84.5	8.3	3.5	2.7	98.8	26.6	70.9	0.9	0.4
- women	(%)	92.9	92.7	94.1	90.7	92.8	91.0	93.5	91.6	94.7
-distribution by age	(%)									
- under 35 years		9.5	8.8	10.8	10.5	9.5	13.0	8.2	10.0	13.2
- from 35 to 54 years		50.5	56.7	57.1	64.3	51.6	59.0	48.6	66.1	57.5
- 55 years and over		40.0	34.5	32.0	25.2	38.9	28.0	43.2	23.9	29.3
- part-time: - under 50 %	(%)	76.8	64.0	65.6	57.0	74.8	81.1	73.1	36.8	49.4
- 50 % and over	(%)	17.1	22.2	19.3	23.4	17.8	13.1	19.4	30.5	19.1
- with another gainful activity	(%)	38.6	38.9	36.4	36.2	38.5	50.3	34.3	27.6	18.6
Other members of the holder's family working on the holding	1000	44.1	5.4	3.0	2.8	55.3	16.7	37.5	0.9	0.3
- women	(%)	38.8	36.6	36.3	32.2	38.1	37.4	38.5	40.4	31.2
- part-time: - under 50 %	(%)	87.5	74.4	66.0	60.2	83.7	87.0	83.0	63.7	48.0
- 50 % and over	(%)	8.8	15.7	19.7	22.2	10.8	8.3	11.6	15.9	22.1
- with another gainful activity	(%)	39.2	33.2	30.3	28.6	37.6	37.2	38.3	19.7	21.2

*LSU = Livestock unit

¹ Only holders who are also farm managers

": not available

"0" less than a half of the unit or nil

Size of the farms		Agricultural area (ha)				All farms	Livestock (LSU)			
		<20	20-<50	50-<100	>=100		0	>0-<50	50-<100	>=100
Holdings										
- total number	1000	116.4	12.3	5.7	6.5	140.8	43.5	94.1	1.4	1.8
- by legal personality of the holder	(%)									
- sole holder		98.3	94.0	89.5	58.2	95.8	90.8	99.5	83.6	30.8
- legal person		1.7	6.0	10.5	41.8	4.2	9.2	0.5	16.4	69.2
- group holders		0	0	0	0	0	0	0	0	0
- by employed labour force	(%)									
- under 1 AWU		63.4	39.6	28.8	11.8	57.6	62.9	56.8	8.7	6.2
- from 1 to less than 2 AWU		27.9	40.0	42.4	28.7	29.6	22.9	32.8	35.8	16.7
- from 2 to less than 3 AWU		6.7	14.1	18.8	15.6	8.2	6.6	8.5	32.3	13.4
- 3 AWU and over		2.0	6.2	10.0	43.9	4.6	7.5	1.9	23.1	63.7
- by economic size	(%)									
- from 1 to less than 8 ESU		92.0	36.7	3.9	0.3	79.4	70.9	85.9	4.3	0.6
- from 8 to less than 16 ESU		5.4	44.7	26.5	3.6	9.6	11.4	8.7	24.9	1.3
- from 16 to less than 40 ESU		2.0	15.4	60.5	29.9	6.8	10.2	4.3	46.3	20.6
- from 40 to less than 100 ESU		0.3	2.9	7.8	38.4	2.6	4.9	0.9	22.1	22.6
- 100 ESU and over		0.3	0.3	1.4	27.9	1.6	2.5	0.1	2.4	54.9
- by type of farming (top 5 + 'other')	(%)									
... specialist cereals, oil seed and protein crops		19.4	52.9	63.3	63.9	26.1	35.8	22.3	7.3	4.5
... mixed cropping		12.7	9.5	6.0	4.1	11.7	5.7	14.8	3.0	3.3
... various crops and livestock combined		13.0	2.6	1.5	1.9	11.1	7.0	13.2	5.2	6.7
... general field cropping		8.1	7.7	7.0	7.8	8.0	9.7	7.5	1.5	2.4
... specialist vineyard		8.8	2.6	1.1	0.6	7.6	16.4	3.8	0.1	0.1
Other types of farming		38.0	24.8	21.1	21.8	35.4	25.4	38.4	82.9	83.1
- by farming methods	(%)									
- organic farming		0.2	0.6	1.0	2.6	0.3	0.5	0.2	1.3	3.9
- irrigating		0.2	0.6	1.0	5.9	0.5	1.2	0.1	0	6.9
- with crops under glass		6.0	1.4	0.9	0.6	5.1	7.9	4.0	0.4	0.6
- with another gainful activity than agricultural production:	(%)									
Tourism		0.5	0.8	1.1	1.7	0.6	1.1	0.3	1.4	1.9
Handicraft		0	0.1	0	0	0	0	0	0	0.1
Processing of farm products		8.9	9.1	7.4	7.6	8.8	8.8	8.7	13.4	13.4
Wood processing		0	0	0.1	0.4	0	0.1	0	0	0.3
Aquaculture		0	0.2	0.5	0.4	0.1	0.1	0	0.1	0.9
Renewable energy production		0	0	0.1	0.5	0	0.1	0	0	0.3
Contractual work		0.4	1.9	4.7	15.2	1.4	2.5	0.6	3.8	16.1
Other gainful activities n.a.e		1.7	3.4	4.8	17.3	2.7	5.0	1.3	4.8	22.2

*LSU = Livestock unit

Hungary – 2007

Table 3 – Land use by size of the farms

": not available

"0" less than a half of the unit or nil

Size of the farms		Agricultural area (ha)				All farms	Livestock (LSU)			
		<20	20-<50	50-<100	>=100		0	>0-<50	50-<100	>=100
Area	(1000 ha)									
Total area of agricultural holdings		602.7	416.6	447.7	3985.1	5452.1	2541.1	1570.2	126.9	1213.9
· H. Other area		79.1	38.3	57.5	1223.1	1397.9	763.4	483.8	7.8	142.9
Wooded area		47.5	28.2	17.8	990.0	1083.5	574.2	437.6	3.6	68.1
· Agricultural area		523.6	378.3	390.2	2762.1	4054.2	1777.7	1086.4	119.1	1071.0
- D. Arable land		414.9	306.8	327.7	2374.8	3424.3	1603.0	894.9	71.5	854.8
Cereals		300.5	219.1	228.9	1518.5	2267.0	1074.8	641.2	47.0	504.1
Common wheat and spelt		84.2	81.1	85.9	652.0	903.3	449.3	215.1	16.3	222.6
Durum wheat		0.1	0	0.2	7.2	7.5	4.1	1.7	0	1.7
Rye		7.1	3.6	2.2	11.2	24.1	7.9	10.9	0.8	4.5
Barley		31.2	25.4	25.8	183.6	266.0	119.8	75.4	7.4	63.4
Oats		8.8	7.0	4.0	18.2	38.0	11.3	19.0	1.8	5.9
Grain maize		140.1	89.3	99.9	596.5	925.7	450.8	272.2	16.3	186.4
Dried pulses		1.1	1.0	1.2	11.5	14.8	6.0	2.8	0.1	5.9
Root crops		9.5	2.5	2.4	34.3	48.7	23.7	8.5	0.3	16.3
Potatoes		8.0	1.8	0.9	3.9	14.5	7.0	6.4	0.1	1.1
Sugar beet		1.4	0.6	1.4	30.3	33.7	16.6	1.8	0.2	15.2
Fodder root		0.2	0.1	0.1	0.1	0.4	0.1	0.3	0	0
Industrial crops		46.0	49.2	65.5	502.6	663.3	367.3	139.7	11.4	145.0
Tobacco		1.3	0.3	0.6	2.5	4.8	3.4	1.4	0	0
Hops		0	0	0	0	0	0	0	0	0
Cotton		0	0	0	0	0	0	0	0	0
Rape and turnip		7.7	11.0	14.5	189.4	222.7	130.7	32.7	3.8	55.4
Sunflower		32.6	33.5	47.0	270.8	383.9	205.3	96.3	7.0	75.3
Soya		1.1	1.4	1.9	22.7	27.1	13.3	4.0	0.2	9.7
Fresh vegetables, melons, strawberry		15.4	5.7	4.5	36.0	61.6	36.4	13.8	0.1	11.2
outside		14.1	5.6	4.5	35.9	60.1	35.6	13.2	0.1	11.2
under glass		1.2	0.2	0	0	1.5	0.8	0.6	0	0
Flower and ornamental plants		0.4	0	0	0.2	0.6	0.5	0.1	0	0
outside		0.2	0	0	0.2	0.4	0.3	0.1	0	0
under glass		0.2	0	0	0	0.2	0.2	0	0	0
Forage plants		20.9	15.4	13.1	183.7	233.1	29.9	47.5	9.8	146.0
Fallow land		20.7	13.4	11.5	78.3	123.9	59.3	39.8	2.2	22.6
- E. Kitchen garden		2.9	0.2	0.1	0	3.2	0.5	2.7	0	0
- F. Permanent pasture and meadows		39.2	49.0	49.8	354.3	492.3	82.4	151.9	46.8	211.2
- G. Permanent crops		66.7	22.2	12.7	32.9	134.5	91.9	36.9	0.7	4.9
Fruit and berry plantation		31.5	12.7	8.1	20.2	72.5	49.7	19.4	0.5	2.9
Citrus plantation		0	0	0	0	0	0	0	0	0
Olive trees		0	0	0	0	0	0	0	0	0
Vineyard		33.0	8.8	3.8	8.1	53.7	35.9	16.2	0.2	1.4
Ratios										
Agricultural area per holding (ha)		4.5	30.8	69.0	426.2	28.8	40.8	11.5	86.2	603.7
Agricultural area... (%)										
... own farmed		86.8	71.6	61.1	19.2	36.8	33.7	69.3	41.0	8.6
... in less favoured or mountain area		33.4	39.5	42.3	57.7	51.4	46.0	44.2	59.9	66.5
... organic farmed		0.2	0.4	0.7	2.5	1.8	0.7	0.8	3.3	4.6
... irrigated		0.1	0.4	0.4	3.0	2.2	2.5	0.1	0	3.9

*LSU = Livestock unit

".." not available

"0" less than a half of the unit or nil

Size of the farm		Agricultural area (ha)				All farms	Livestock (LSU)			
		<20	20-<50	50-<100	>=100		0	>0-<50	50-<100	>=100
Total livestock	(1000 LSU)	955.9	172.4	98.9	872.6	2099.9	0	480.7	95.3	1523.9
of which grazing	(%)	16.2	37.7	52.2	46.1	32.1	:	42.7	66.2	26.6
Grazing livestock	(1000 heads)									
Equidae		26.0	4.0	2.8	6.3	39.1	0	31.8	2.7	4.7
Bovine animals		127.9	53.9	39.9	474.4	696.1	0	161.4	45.8	488.9
Under 1 year		41.7	15.3	11.2	117.6	185.8	0	49.9	12.6	123.3
From 1 to less than 2 years		26.4	10.9	7.7	102.7	147.8	0	32.7	9.7	105.3
Dairy cows		48.5	17.6	13.0	186.3	265.3	0	57.3	13.3	194.7
Other cows		5.6	6.8	5.5	37.5	55.4	0	13.1	6.9	35.3
Other bovine animals 2 years and older		5.7	3.3	2.6	30.3	41.9	0	8.3	3.3	30.2
Sheep		375.5	218.6	200.1	367.1	1161.4	0	582.1	273.6	305.7
Goats		35.4	2.7	1.4	3.8	43.3	0	40.4	1.2	1.7
Granivores										
Pigs	(1000 heads)	1318.7	332.9	160.1	1542.8	3354.5	0	698.1	64.8	2591.7
Piglets < 20 kg		261.5	90.8	38.7	410.8	801.7	0	138.3	14.0	649.4
Breeding sows		102.4	29.8	14.2	134.4	280.8	0	58.4	6.2	216.2
Other pigs		954.8	212.4	107.2	997.6	2272.1	0	501.4	44.6	1726.1
Poultry	(million heads)	23.5	1.4	0.4	5.4	30.8	0	4.5	0.8	25.5
Broilers		7.4	0.4	0.1	1.8	9.7	0	0.2	0.2	9.3
Laying hens		5.0	0.5	0.1	1.8	7.4	0	2.4	0.3	4.7
Other poultry		11.1	0.6	0.1	1.8	13.6	0	1.8	0.3	11.4
Rabbits, breeding females	(1000 heads)	78.2	0.8	0.1	14.9	94.0	0	43.1	4.2	46.7
Beehives	(1000)	506.0	9.6	2.8	2.7	521.1	320.8	200.0	0.3	0.1
Average size of herds*	(head/holding)									
Equidae	(head/holding)	2.6	3.5	5.7	11.7	3.2	:	2.7	8.0	19.6
Cattle	(head/holding)	9.9	21.9	40.1	372.1	39.4	:	10.0	64.6	645.9
Dairy cows	(head/holding)	5.3	11.4	21.3	259.1	22.0	:	5.2	27.6	370.2
Other cows	(head/holding)	5.9	16.8	26.7	85.0	27.5	:	8.4	30.9	151.6
Sheep	(head/holding)	43.3	129.6	229.2	417.2	95.9	:	52.1	442.0	983.1
Goats	(head/holding)	7.2	7.1	8.2	27.1	7.7	:	7.4	11.3	28.5
Pigs	(head/holding)	21.1	57.6	79.2	1072.1	46.7	:	9.9	77.1	3507.0
Breeding sows	(head/holding)	4.3	10.8	15.3	187.2	9.9	:	2.1	13.2	407.1
Other pigs > 20 kg	(head/holding)	15.8	38.3	54.5	702.5	32.8	:	7.4	53.8	2351.6
Rabbits, breeding females	(head/holding)	20.1	4.1	3.3	218.5	22.5	:	10.4	231.6	3337.9
Laying hens	(1000/holding)	0.1	0.1	0.1	2.0	0.1	:	0	0.5	19.9
Broilers	(1000/holding)	26.1	18.2	130.0	67.3	29.2	:	1.2	6.0	73.4
Beehives	(hive/holding)	84.4	76.0	39.6	97.1	83.8	96.5	69.4	19.5	50.0

*LSU = Livestock unit

		Absolute figures			% of total	
		Total	< 1 ESU	>= 1 ESU	< 1 ESU	>= 1 ESU
Regular Labour force	(1000 pers)	1260.8	886.0	374.8	70.3	29.7
Regular labour force	(1000 AWU)	389.7	193.4	196.2	49.6	50.4
Holders with...	(1000)	618.7	483.8	134.9	78.2	21.8
... at least 65 years		171.8	145.0	26.9	84.4	15.6
... another gainful activity		232.6	184.1	48.5	79.2	20.8
Number of sole holdings	(1000)	626.3	485.5	140.8	77.5	22.5
... producing mainly for own consumption		522.6	445.9	76.7	85.3	14.7
... producing mainly for direct sales		113.6	64.7	48.9	56.9	43.1
SGM	(1000 ESU)	2032.6	155.1	1877.5	7.6	92.4
Agricultural area	(1000 ha)	4228.6	174.4	4054.2	4.1	95.9
... own farmed		1654.0	161.2	1492.8	9.7	90.3
Livestock	(1000 LSU*)	2409.3	309.4	2099.9	12.8	87.2

*LSU = Livestock unit

➤ METHODOLOGICAL NOTES

The Hungarian Central Statistical Office (HCSO), in collaboration with their regional directorates implemented the survey on the structure of agricultural holdings in Hungary. The FSS 2007 was the third survey after the last Agricultural Census in 2000 (AC 2000). It was carried out between 12 and 30 November 2007 using a combination of exhaustive (for the agricultural enterprises) and sample survey (for the private holdings). The reference day for livestock was the 1 December, and for the labour force queries the 12 months preceding the survey.

The FSS 2007 used two different sources as basis for the 2007 survey, that also reflect the agricultural structure in Hungary: a) the Farm Register based on the AC 2000 that is annually updated with available statistical information, for the private holdings and b) the Business Register that is an administrative source with a continuous update process for the agricultural enterprises (that are in total around 10 000). The definition of an agricultural holding complies with the European Commission's definition.

In the case of the private holdings the sample was drawn by a one-stage cluster method. From the 13 676 survey districts of the census 2000 about 15% of the districts were selected randomly and within these 2 013 sampled districts a full scope observation has been carried out. A separate stratum of 185 holdings was created based on the size of land area and/or livestock, regardless of the district, this stratum was fully enumerated. Altogether about 111 000 questionnaires were completed using a face-to-face interview.

In the case of the agricultural enterprises and the 185 large farms referred above, the questionnaire was sent by post. The results were 9 000 questionnaires returned, 7 600 of which were engaged in agricultural activities.

Administrative sources, from the Hungarian organizations that certify the organic farming were used for providing information on these types of activities. Data on quality wine is also extracted from the wine register.

Non-response in the 2007 FSS in Hungary was quite low: 0.4% for the private holdings and 0.07% for the enterprises.

For each activity ('enterprise') on a farm (for instance wheat, dairy cow or vineyard), a Standard Gross Margin (SGM) is estimated, based on the area (or the number of heads) and a regional coefficient. The sum of such margins in a farm is its economic size, expressed in European Size Units (ESU, 1 ESU is a 1200-euro SGM).

An Annual work unit (AWU) is equivalent to a worker employed on a full time basis for one year. In Hungary it is 1800 hours (225 working days of 8 working hours per day).

A Livestock Unit (LSU) is equivalent to a dairy cow. The number of animals (number of heads) is converted into LSU using a set of coefficients reflecting the feed requirements of the different animal categories.

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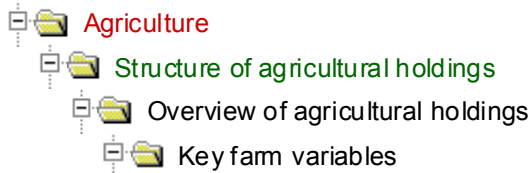
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